

CTR Employer Survey Report

Thank you for completing your Commute Trip Reduction survey. This report contains the survey results.

Employer Id : E20016

Participation : CTR

Employer : Irwin Research & Development Inc

Status : Affected

Worksite : Irwin Research & Development Inc.

Survey Type : Paper

Street : 2401 W J St 10668

Response Rate : 99%

Jurisdiction : City of Yakima

Survey Date : 5/25/2016

Non-Drive Alone & One-Way VMT Rates at this Worksite

Non-Drive Alone Rate : 15.5%

Drive Alone Rate : 84.5%

One-Way VMT per employee : 7.2

Average One-Way distance home to work : 8.0

Employees and Survey Response Information

Reported Total Employees at Worksite: 185

Surveys Distributed : 185

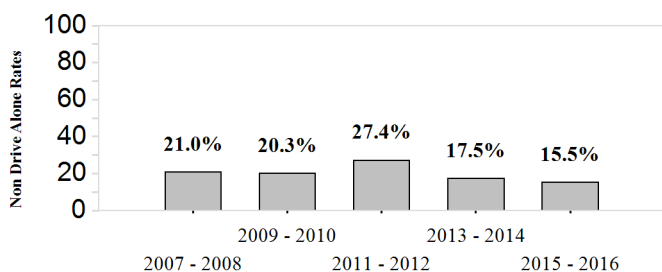
Surveys Returned : 183

Surveys Returned by CTR Affected* Employees : 180

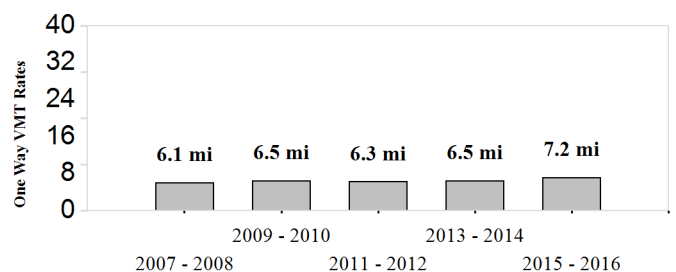
Total Estimated CTR Affected Employees at Worksite : 182

**CTR Affected employees filled out the survey as being full-time and commuting (typically) to work at least twice between 6a and 9a, Monday through Friday.*

Non Drive Alone Rates - ALL Employees



One Way VMT per Employee - ALL Employees



Site History and Targets

Annual Metric Tons CO₂e Pounds CO₂e

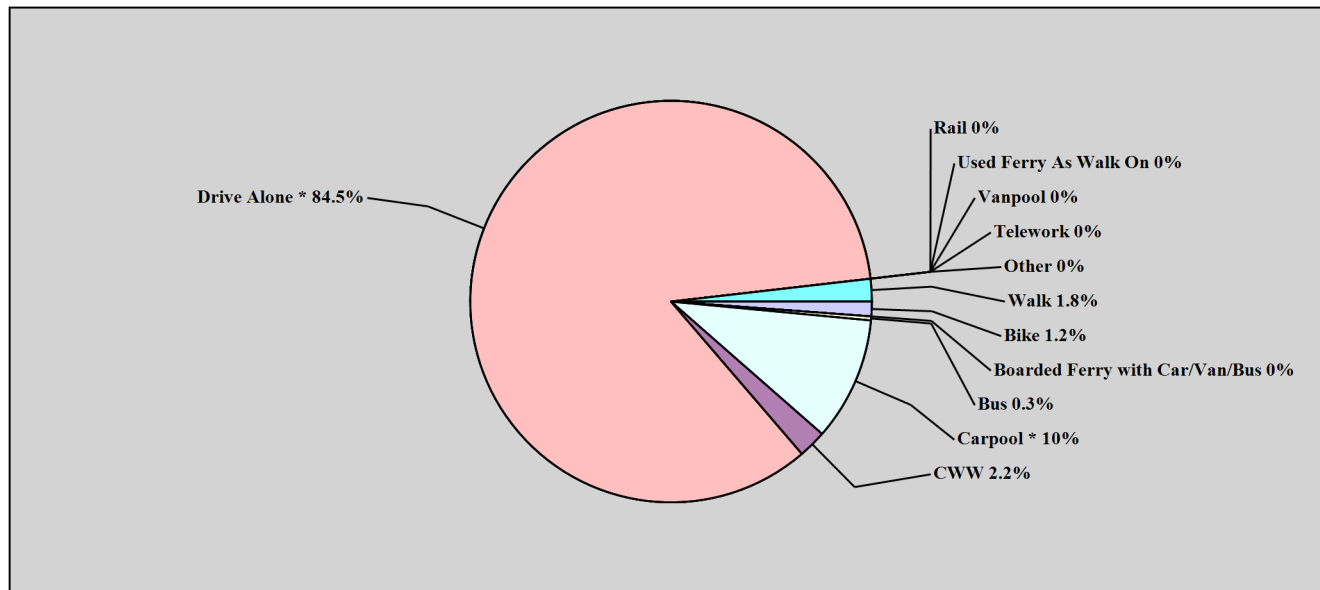
Cycle	Non Drive Alone Rate - All	Non Drive Alone Rate - CTR Affected	Emissions for Surveyed Employees	Estimated Emissions for Total Employment	GHG per Employee's Roundtrip	VMT per Employee - All	VMT per Employee - CTR Affected
2007 - 2008	21.0%	20.3%	211	340	16.2	6.1	6.2
2009 - 2010	20.3%	21.3%	120	208	9.9	6.5	6.5
2011 - 2012	27.4%	27.4%	171	254	12.1	6.3	6.3
2013 - 2014	17.5%	17.4%	260	287	13.7	6.5	6.5
2015 - 2016	15.5%	15.7%	283	286	13.6	7.2	7.2
2017 - 2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Target	27.0%				Target:	5.0	
% Point Change Target:	6.0				% Change Target:	-18.0%	
% Point Change from Baseline:	-5.5				% Change from Baseline:	18.0%	

GHG calculations are based on VMT and estimated total round-trip commutes for all employees. Modes that contribute to GHG include driving alone, carpooling, vanpooling, and riding a motorcycle. The use of other modes (e.g., transit, rail, walking, ferry) do not increase a worksite's GHG calculation. For more information about how GHG is calculated, please contact your jurisdiction's representative.

Commute Trips By Mode - All Employees

Q.4: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - All Employees



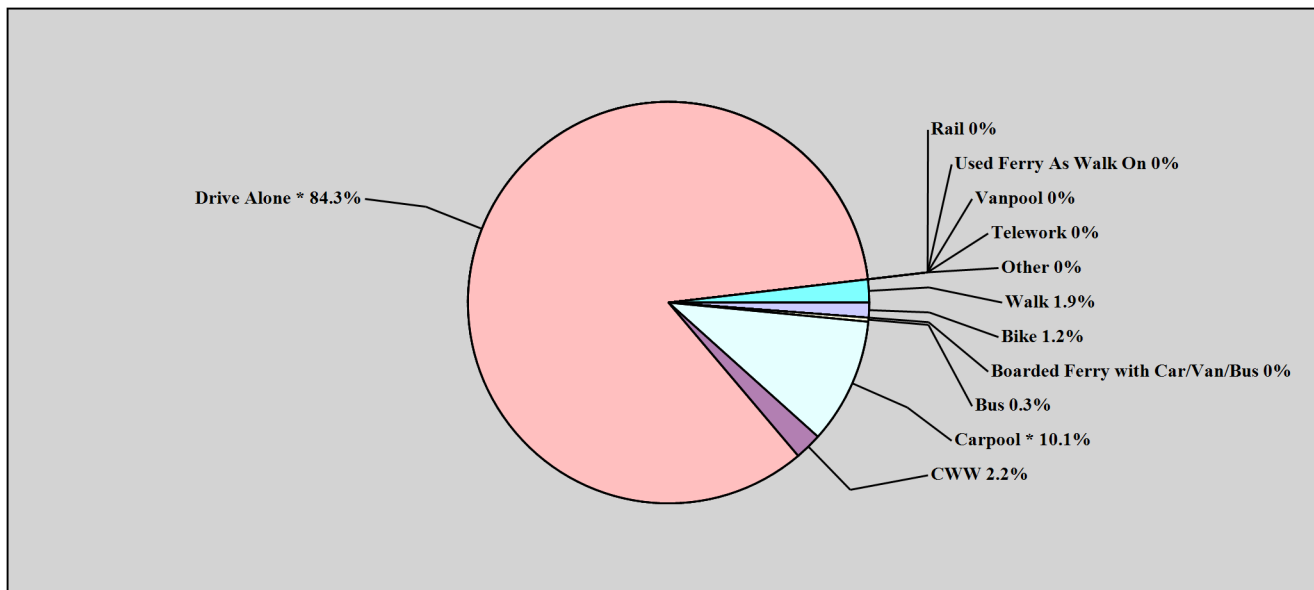
Mode	Trips During This Survey	% of Trips During This Survey	% of Trips During Previous Survey	Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During Previous Survey
Drive Alone *	789	84.5%	82.5%	170	92.9%	88.7%
Carpool *	93	10.0%	10.1%	22	12.0%	12.4%
Vanpool	0	0.0%	0.0%	0	0.0%	0.0%
Bus	3	0.3%	0.6%	1	0.5%	0.6%
Rail	0	0.0%	0.0%	0	0.0%	0.0%
Bike	11	1.2%	2.9%	3	1.6%	4.0%
Walk	17	1.8%	3.4%	4	2.2%	4.0%
Telework	0	0.0%	0.0%	0	0.0%	0.0%
CWW	21	2.2%	0.4%	19	10.4%	1.7%
Boarded Ferry with Car/Van/Bus	0	0.0%	0.0%	0	0.0%	0.0%
Used Ferry As Walk On	0	0.0%	0.0%	0	0.0%	0.0%
Other	0	0.0%	0.0%	0	0.0%	0.0%

* Motorcycle-1 is now included in Drive Alone and Motorcycle-2 is included in Carpool. Information about these trips is still available by request.

Commute Trips By Mode - Affected Employees

Q.4: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - CTR Affected Employees



Mode	Trips During This Survey	% of Trips During This Survey	% of Trips During Previous Survey	Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During Previous Survey
Drive Alone *	775	84.3%	82.6%	167	92.8%	88.6%
Carpool *	93	10.1%	10.2%	22	12.2%	12.5%
Vanpool	0	0.0%	0.0%	0	0.0%	0.0%
Bus	3	0.3%	0.6%	1	0.6%	0.6%
Rail	0	0.0%	0.0%	0	0.0%	0.0%
Bike	11	1.2%	2.9%	3	1.7%	4.0%
Walk	17	1.9%	3.5%	4	2.2%	4.0%
Telework	0	0.0%	0.0%	0	0.0%	0.0%
CWW	20	2.2%	0.3%	18	10.0%	1.1%
Boarded Ferry with Car/Van/Bus	0	0.0%	0.0%	0	0.0%	0.0%
Used Ferry As Walk On	0	0.0%	0.0%	0	0.0%	0.0%
Other	0	0.0%	0.0%	0	0.0%	0.0%

* Motorcycle-1 is now included in Drive Alone and Motorcycle-2 is included in Carpool. Information about these trips is still available by request.

Alternative Modes - Number of Employees Who Used a Non-Drive Alone Mode:

Non-Drive Alone Number Of Days	Exactly this # of Employees	Exactly this % of Employees	At least # of Employees	At least % of employees
0 Day	137	75%	183	100%
1 Days	16	9%	46	25%
2 Days	3	2%	30	16%
3 Days	5	3%	27	15%
4 Days	3	2%	22	12%
5 Days	18	10%	19	10%
6 or More Days	1	1%	1	1%

Count by Occupancy of Carpools and Vanpools

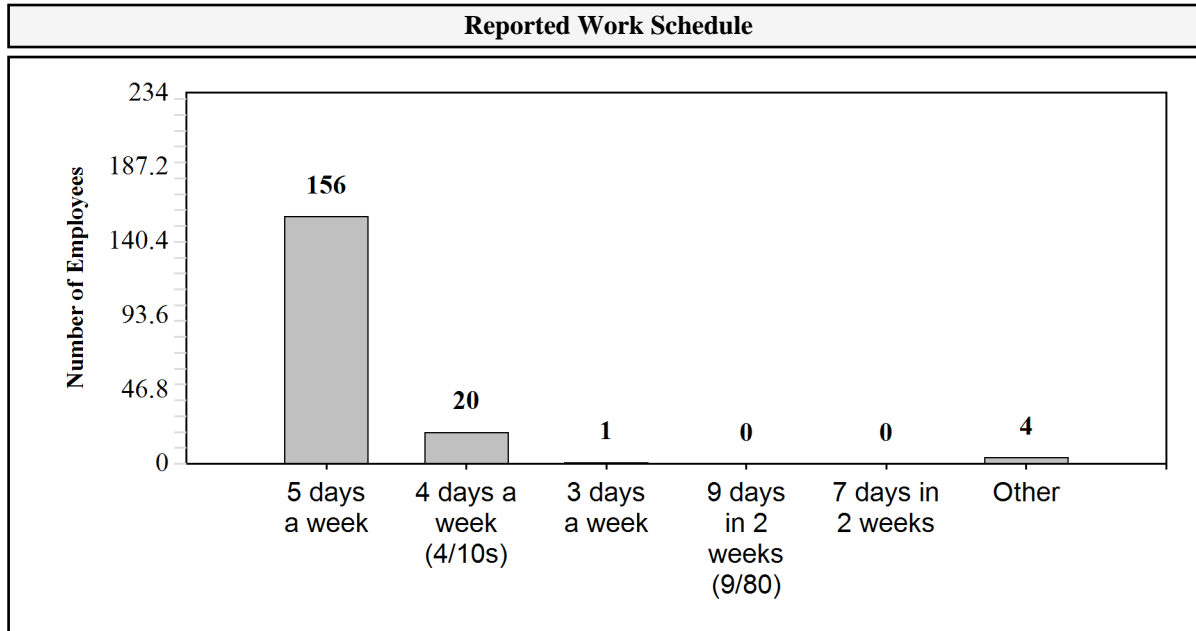
Q.5 If you used a carpool or vanpool as part of your commute, how many people (age 16 or older) are usually in the vehicle?

Ridesharing Occupancy	Mode	Response Count
2*	Carpool	84
3	Carpool	9
4	Carpool	0
5	Carpool	0
>5	Carpool	0
<5	Vanpool	0
5	Vanpool	0
6	Vanpool	0
7	Vanpool	0
8	Vanpool	0
9	Vanpool	0
10	Vanpool	0
11	Vanpool	0
12	Vanpool	0
13	Vanpool	0
14	Vanpool	0
>14	Vanpool	0

* Motorcycle-2 counted with Carpool-2 for this table.

Reported Work Schedule - All Employees

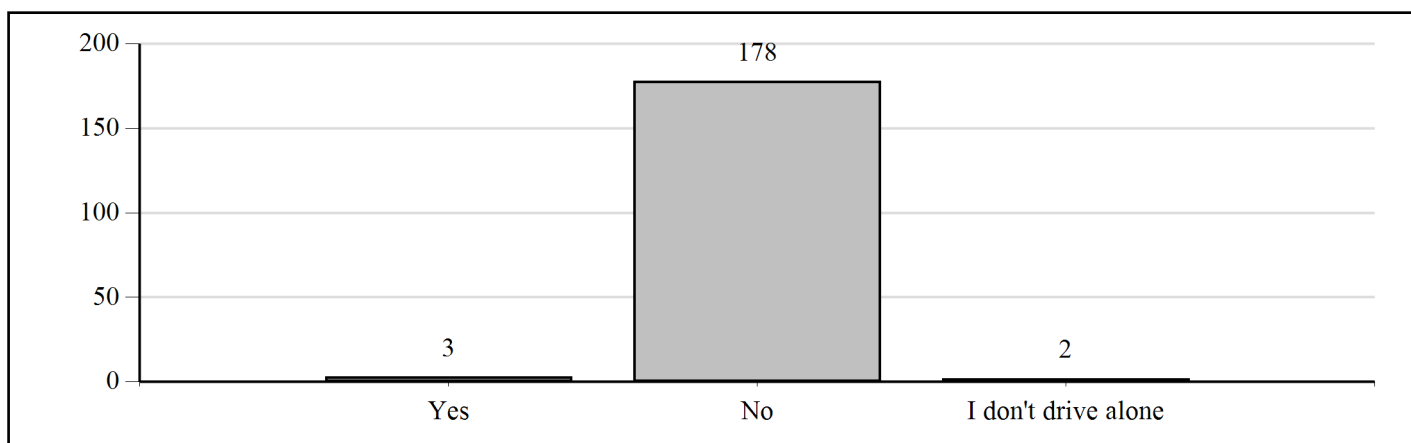
Q.8 Which of the following best describes your work schedule?



Reported Work Schedule	# Of Responses	% Of Employees
5 days a week	156	86.2%
4 days a week (4/10s)	20	11.1%
3 days a week	1	0.6%
9 days in 2 weeks (9/80)	0	0%
7 days in 2 weeks	0	0%
Other	4	2.2%

Parking and Telework

Q.9: On the most recent day that you drove alone to work, did you pay to park? (Mark "yes" if you paid that day, if you prepaid, if you are billed later, or if the cost of parking is deducted from your paycheck.)



Q.10: How many days do you typically telework?

Telework Frequency	# of Responses	% of Responses
No Answer/Blank	3	1.6%
I don't telework	172	94.0%
Occasionally, on an as-needed basis	7	3.8%
1-2 days/month	0	0.0%
1 day/week	0	0.0%
2 days/week	1	0.5%
3 days/week	0	0.0%

Reasons for driving alone to work/not driving alone to work

Q11. When you do not drive alone to work, what are the three most important reasons?

Question Text	# of Responses	% of Responses
To save money	82	27.9%
Other	49	16.7%
Environmental and community benefits	35	11.9%
Personal health or well-being	32	10.9%
Driving myself is not an option	30	10.2%
Financial incentives for carpooling, bicycling or walking.	23	7.8%
Emergency ride home is provided	17	5.8%
Free or subsidized bus, train, vanpool pass or fare benefit	13	4.4%
I have the option of teleworking	7	2.4%
Cost of parking or lack of parking	3	1.0%
To save time using the HOV lane	2	0.7%
Preferred/reserved carpool/vanpool parking is provided	1	0.3%
I receive a financial incentive for giving up my parking space	0	0.0%

Q12. When you drive alone to work, what are the three most important reasons?

Question Text	# of Responses	% of Responses
I like the convenience of having my car	134	31.8%
Riding the bus or train is inconvenient or takes too long	76	18.1%
Family care or similar obligations	47	11.2%
My commute distance is too short	46	10.9%
Bicycling or walking isn't safe	41	9.7%
Other	40	9.5%
My job requires me to use my car for work	17	4.0%
I need more information on alternative modes	16	3.8%
There isn't any secure or covered bicycle parking	4	1.0%

Commute Mode By ZipCode for All Employees

Q6. What is your home zip code?

Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98902	51	27.87%	193	31	0	13	0	0	8	10	0	5	0	0	0
98908	47	25.68%	196	25	0	7	0	0	3	0	0	8	0	0	0
98901	19	10.38%	76	8	0	0	3	0	0	7	0	2	0	0	0
98903	17	9.29%	65	14	0	5	0	0	0	0	0	2	0	0	0
98942	15	8.20%	73	0	0	1	0	0	0	0	0	3	0	0	0
98936	7	3.83%	32	5	0	0	0	0	0	0	0	0	0	0	0
98937	5	2.73%	25	0	0	0	0	0	0	0	0	0	0	0	0
98947	5	2.73%	26	0	0	0	0	0	0	0	0	0	0	0	0
98951	5	2.73%	26	0	0	0	0	0	0	0	0	1	0	0	0
98900	2	1.09%	11	0	0	0	0	0	0	0	0	0	0	0	0
98923	2	1.09%	7	0	0	3	0	0	0	0	0	0	0	0	0
8	1	0.55%	5	0	0	0	0	0	0	0	0	0	0	0	0
8 9	1	0.55%	5	0	0	0	0	0	0	0	0	0	0	0	0
93	1	0.55%	0	5	0	0	0	0	0	0	0	0	0	0	0
98002	1	0.55%	0	5	0	0	0	0	0	0	0	0	0	0	0
98909	1	0.55%	5	0	0	0	0	0	0	0	0	0	0	0	0
98930	1	0.55%	5	0	0	0	0	0	0	0	0	0	0	0	0
98944	1	0.55%	5	0	0	0	0	0	0	0	0	0	0	0	0
98953	1	0.55%	5	0	0	0	0	0	0	0	0	0	0	0	0